



Trend & Technology 2

Society Information Display 2009



< 1 > SID 2009

2009 (SID 2009)가 LCD, AMOLED, 3D
 Henry B. Gonzalez Convention Center 5 31 () 6 5
 SID 2009
 240 Hz 139.7 cm Full HD

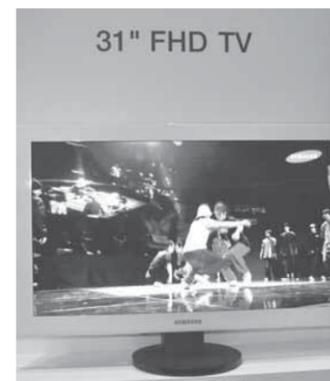


< 2 > world 1st true 240 Hz 139.7 cm FHD LCD TV

35.8 cm AMOLED TV(< 3>(b)),
 Oxide TFT LCD 1-chip 38.1 cm Note PC
 printable oxide TFT - LCD 10.2
 qVGA(< 4>), 25.9 cm Color e- paper(<
 5>(a) OLED(< 5>(b)), 10.2 cm
 WQVGA Flapping Display(< 6>(a)) 30.5
 cm AMOLED(< 6>(b))

LG Display 119.4 cm
 switchable lens type, 58.4 cm active retarder, 61.0
 cm patterned retarder, 58.4 cm shutter
 glasses 3D (< 7>)

LCD 240 Hz 1 60 Display 3D 3D LCD
 3 3D LCD
 58.4 cm 3D LCD
 240 가 Full HD
 LCD 3D LCD 2
 LCD
 240 Hz 가 LCD 3D LCD
 2 4 3D LCD
 (< 2>).
 LTPS(Low Temperature Poly Silicon) FMM(Fine
 Metal Mask) 78.7 cm FHD AMOLED(< 3>(a)) mono (< 8>(a)) Monochrome 15.2 cm
 LCD e- book(< 8>(b)), 27.9 cm



< 3 > 78.7 cm FHD AMOLED(), 35.8 cm AMOLED TV()



< 4> Oxide TFT-LCD 1-chip 38.1 cm Note PC(), printable oxide TFT-LCD 10.2 cm qVGA()



< 7> 119.4 cm switchable lens type, 58.4 cm active retarder, 61.0 cm patterned retarder, 58.4 cm shutter glasses 3D



< 5> 25.9 cm Color e-paper(), OLED()



OLED()

OLED
가 RGB
가 Shadow mask



< 6> 10.2 cm WQVGA Flapping Display(), 30.5 cm AMOLED()



AMOLED()

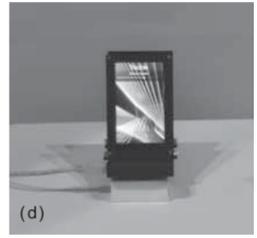
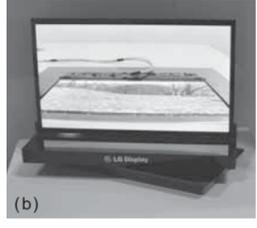
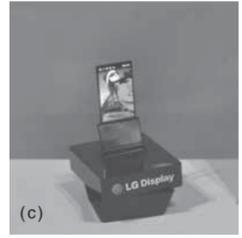
Universal display
OLED(< 12>(a)), 10.2 cm
wrist - worn AMOLED(< 12>(b)),
OLED(< 12>(c))
Universal display LG
Display가
(Phosphorescent material)
10.2 cm AMOLED(<
12>(b)) 81,6 x 61 mm
QVGA(320 x RGB x 240 pixels)
100 cd/m², 1000 : 1
가 , 167
. 76 μm (steel)

flexible e - paper(< 9>(a)), 38.1 cm HD micro thin
AMOLED(< 9>(b)), 7.6 cm WqVGA micro thin 5.08 cm
AMOLED(< 9>(c)), 7.6 cm AMOLED(< E - INK
9>(d))
Kodak (Amorphous silicon)
12.2 cm AMOLED(< 10>) OLED(<
11>), OLED
AMOLED E - INK

0.3 mm
(Electronic ink)
E - INK



< 8> 15.2 cm LCD Color() mono (가) Monochrome 15.2 cm LCD e-book()

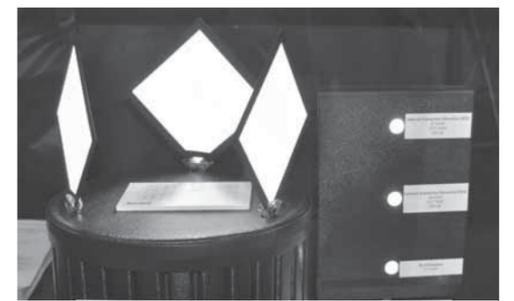


< 9> (a) 27.9 cm flexible e - paper,
(b) 38.1 cm HD micro thin AMOLED,
(c) 7.6 cm WqVGA micro thin AMOLED,
(d) 7.6 cm AMOLED



< 10> Amorphous Silicon 12.2 cm AMOLED

Digital reader 1000S(< 13>(a)), AMAZON KINDLE
2(< 13>(b)), SONY reader digital book PRS 700(<
13>(c)), NEC 35.1 cm (<
14>(a)), Motorola Hitachi Mobile
(< 14>(b))
E - INK
가 가
, 180
Microvision Scanned laser
(pico - projector)
(< 15>).
847 x



< 11> OLED solid state lighting



< 12> (a) OLED, (b) 10.2 cm wrist-worn AMOLED, (c) OLED
 480(WVGA) 30.5 cm 254.0 . 600×400 가
 cm 가가 2.5 10.9 cm
 가 (Bi-stable mode)
 (Capacitive touch panel) (Resistive touch panel) 가
 < 15> Arizona State University Flexible Display Center(FDC)
 WINTEX 10.9 cm
 (Electronic paper display, EPD)< 16>(a), 10.9 cm
 (< 16>(b)) Universal Display



< 13> (a) IREX Digital reader 1000S, (b) AMAZON KINDLE 2, (c) SONY reader digital book PRS 700



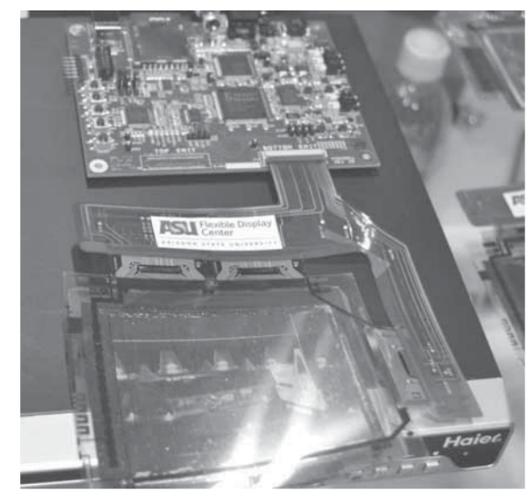
< 14> NEC 35.1 cm (), Motorola Hitachi Mobile ()



< 15> Microvision



< 16> 10.9 cm (), 10.9 cm ()



< 17> Arisona State University Flexible Display Center

Universal Display
10.4 cm QVGA Phosphorescent OLED(PHOLED)

SID 2009

가

가

2010

2009 ()
(No.2009 - 0083126)
(R32 - 2008 - 000 - 10082 - 0)

- < >
- 1) (<http://diana.korea.ac.kr>)
- 2) (<http://www.sid.org>)

SID

Trend & Technology 3

(一ノ瀬 昇)
Source : Monthly ' DISPLAY ' June 2009, TechnoTimes of Japan



가
(CRT) TV LCD
TV PDP TV가
가
HD(High Definition)
(refresh rate), (調光)
가 (高精細)
1.
(實裝)
< 1> () 1) 가 가
가
(粉體) 1 μm nm